

User Guide

PowerMax10

Fully supervised wireless alarm control system



Visonic®

For a secure way of life

PowerMax10-G2 User Guide

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INTRODUCTION

1. Introduction

Preface

Dear Customer,
Thank you for choosing PowerMax10-G2, a highly advanced wireless alarm control system produced by Visonic Ltd.

Overview

The PowerMax10-G2 is a wireless alarm control system that provides protection against burglary, fire and tampering. In addition, it can be used to monitor the activity of disabled or elderly people left at home. Status information is presented visually.

The PowerMax10-G2 is governed by a control panel (Fig. 1) designed to collect data from various sensors that are strategically located within and along the perimeter of the protected site (Figure 2).

In the **disarmed state**, the system provides you with visual status information, and initiates an alarm if smoke is detected or upon disturbance in a 24-hour zone (a zone which is active 24-hours a day).

In the **armed state**, the system will initiate an alarm upon detection of disturbance in any one of the armed zones.

Also please make sure that you have the name and telephone number of the monitoring station your system will report to. If you ever call the monitoring station to ask questions, you should be able to come up with your "ACCOUNT NUMBER" used to identify your alarm system to the monitoring station. Obtain this information from your installer and write it.

monitoring stations (in digital form) and to private telephones (in tones and/or SMS messages). The person receiving such a message is expected to investigate the event and act accordingly.

IMPORTANT! All you need to know to secure your premises can be found in Chapter 2 of this manual.

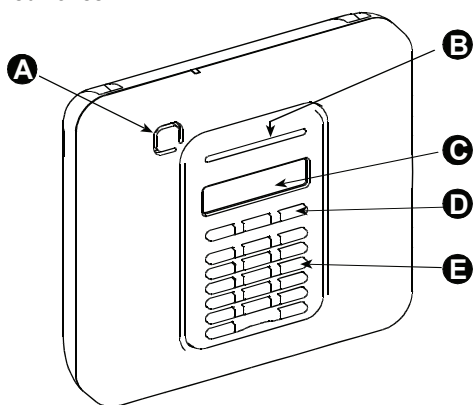
If you are not familiar with some of the terms used here, refer to Appendix A at the end of this guide.

Note: This system must be checked by a qualified technician at least once every three (3) years.

System Features

Your PowerMax10-G2 offers a large number of unique features:

- **Master / User Settings:** Two user levels allow different access types.
- **29 zones:** Each protected zone is identified by number and by name.
- **Multiple arming modes:** AWAY, HOME, AWAY-INSTANT, HOME-INSTANT, LATCHKEY and BYPASS.
- **Liquid crystal display (LCD):** Plain-language status information and prompts are displayed on the front panel in large, clear letters.
- **Real-time clock:** The present time is visible on the display. This feature is also used for the log file by providing the date and time of each event.
- **Various reporting destinations:** Events are reported automatically to monitoring stations, private telephones of your choice, to a pager and even by SMS if GSM is installed.
- **Selective reporting:** Your installer can determine what type of event will be reported to which destination.
- **Latchkey mode:** An automatic "Latchkey" message is sent to chosen telephones if the system is disarmed by a "latchkey" user (a junior family member, for instance).



- A. INTERNAL SOUNDER
- B. INDICATORS
- C. DISPLAY
- D. CONTROL KEYS
- E. KEYPAD

Figure 1. Control Panel

The system identifies a wide range of events - alarms, attempts to tamper with sensors and several types of trouble. Events are automatically reported via PSTN or optional GSM and Broadband to

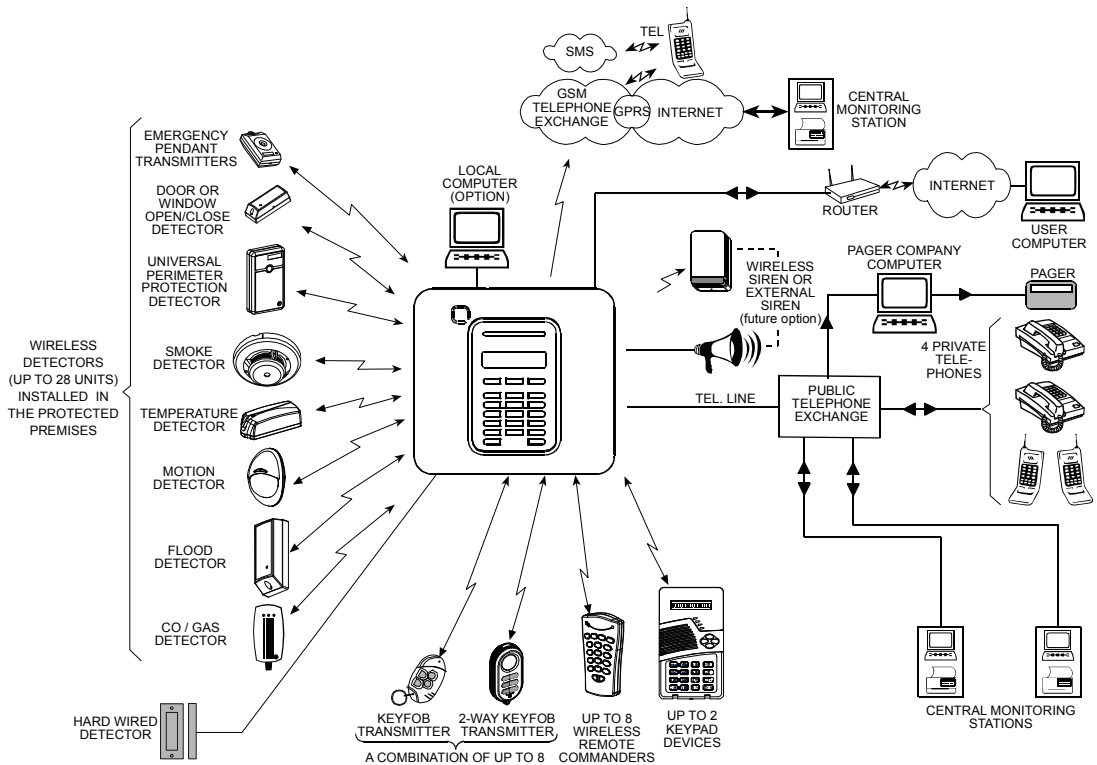


Figure 2. Typical System Configuration

- **Access from remote telephones:** You may access the PowerMax10-G2 from a remote telephone and Arm/Disarm it or receive system status information.
- **Numerical keys serve as function keys:** In the disarmed state, numerical keys are used to control various system functions. A simple icon on each key identifies the task of that key.
- **Data retrieval:** You can obtain status information, trouble information and review memorized alarm events visually.
- **Looking after elderly, physically handicapped and infirm individuals:** The system can be programmed to monitor activity within the protected area and send out an alert message if the person under surveillance remains still for a predefined period of time (as set by your installer).
- **Distress calls:** Miniature pushbutton transmitters dealt out to specific individuals may be used for sending emergency calls for help.
- **Disarming under duress:** If a user is forcibly compelled to disarm the system, he can use a special code that disarms the system apparently as usual, but sends a silent alarm to the monitoring station (see chapter 4).
- **System supervision:** All wireless peripherals within the protected site send periodic supervision

messages. If such a message is overdue, the PowerMax10-G2 displays an 'inactivity' trouble message. Your installer can disable this feature if so desired.

- **Battery supervision:** You do not have to worry about 'dead' batteries. The PowerMax10-G2 displays a 'Low Battery' message whenever a battery in a wireless sensor is found to be near the end of its useful life. When the battery voltage in the wireless siren is low, a low battery message is sent to the alarm system. After the low voltage message delivery, at least 2 siren alarms are possible before the siren is totally inactive.

Users and Codes

You will need a 4-digit security code to master the system (code 0000 is not allowed), and you can authorize 7 other persons to use the system by providing them with their own security codes.

Moreover, you can obtain up to 8 multi-function key-ring transmitters that will allow you and other users to easily control major functions.

If the user has changed the state of the system from a high security mode to a lower security mode i.e. from ARM to DISARM, or from ARM to HOME, he will be prompted to enter the user code thus bypassing the QUICK ARM option.






INTRODUCTION

Internal Sounder





Alarm Type	Graphic Representation of Signal	Verbal Description of Signal
Burglar / 24 hour/ Panic	—————	ON continuously
Fire	--- --- --- ---	ON - ON - ON - pause - ON - ON - ON - pause.....
Test*	— (both external and internal sirens)	ON for 2 seconds (once)

Indicators

The sounds you will hear while using the control panel are:

-  Single beep, heard whenever a key is pressed
-  Double beep, indicates automatic return to the normal operating mode (by timeout).
-  Three beeps, indicates a trouble event
-  **Happy Tune** (- - - —), indicates successful completion of an operation.
-  **Sad Tune** (———), indicates a wrong move or rejection

The LEDs you will see on your control panel are:




Indication	Function
	Power (Green): Indicates that your system is properly connected to the power outlet.
	Arm (Red): Lights when the system is in the armed state.
	Chime (Green): Chime zones will chime when disturbed
	Trouble (Orange): Lights when the system is in a state of trouble.

Display



The display is in the form of a single line, backlit 16-character LCD. The display includes the time and date and is also used for the log file by providing the date and time of each event. The display alternates with the time and the system status, for example:

READY	HH:MM
↶ (alternating)	↷
READY	MEMORY

Control Keys

Key	Task
	Advance from item to item within a given menu.
	Move one step back within a given menu
	Review status messages one by one and also select a displayed option.

Screen Saver Mode

During installation your installer can configure the screen saver for the system's display. The purpose of the Screen Saver (if enabled by the installer) is to hide the status of the system and to prevent an intruder from knowing the system status. When enabled and no key is pressed for more than 30 seconds, the display will read "PowerMax10-G2" and the LEDs do not light or indicate any status. The normal display resumes when pressing the  button. If configured by the installer for additional security, the system will ask you to enter your user code after you press the  button

The pressed key (except Fire and Emergency) causes normal display return but does not perform any action. With Fire and Emergency keys, the pressed key causes the normal display to resume and also initiates Fire or Emergency alarm.

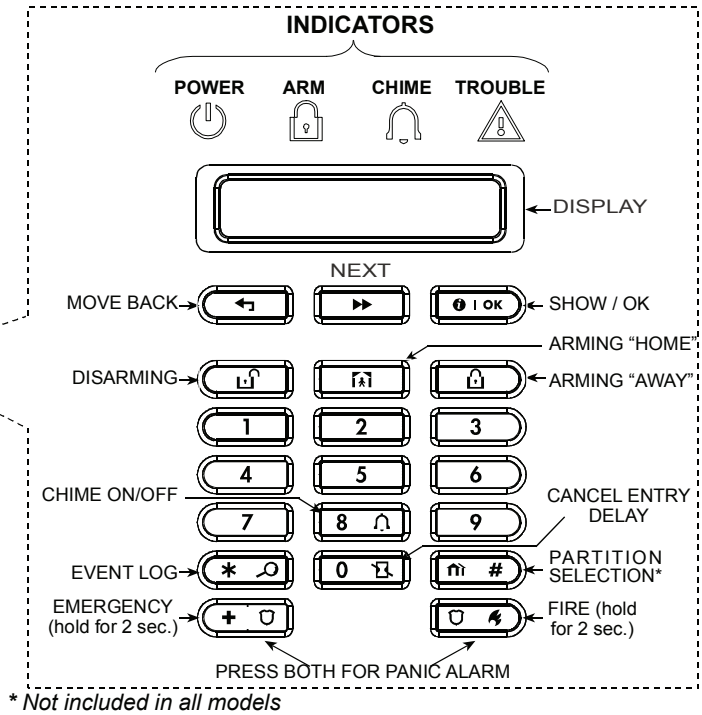
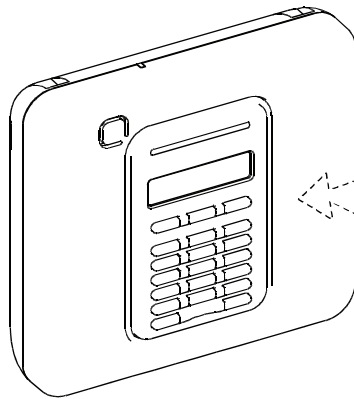


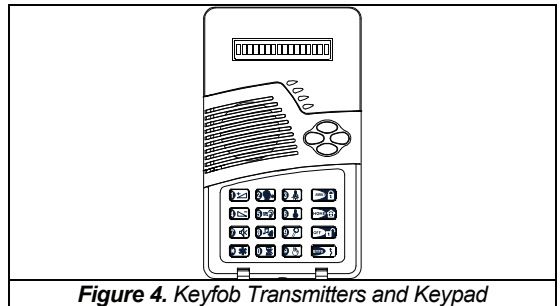
Figure 3. Controls and Indicators

Remote control devices

Your system responds to signals sent by a 4-button (KF-234) or a 6-button two-way (KF-237) 'keyfob' transmitter, or by a two-way wireless keypad (MKP-150/151) - see figure 4.

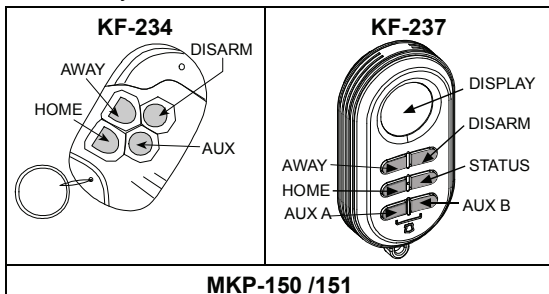
Messages are authenticated and encrypted, by using AES - 128 encryption standard, hence malicious "code grabbing" is virtually impossible.

Both wireless keyfob transmitters are used to control the alarm system.



A PANIC alarm can be initiated: through the KF-234 keyfob, by pressing AWAY and HOME together for 2 sec.; through the KF-237 keyfob, by pressing the AUX1 and AUX2 buttons for 2 sec.; and through the MKP-150/151 keypad by pressing the # and * buttons for 2 sec. Pressing AWAY twice within 2 seconds initiates Latchkey arming, if enabled by the installer.

The devices can be used for:



INTRODUCTION

- A. Arming the system in the INSTANT mode:** Pressing the AUX button immediately after arming, during exit delay, causes the system to be armed without an entry delay. This means that entering the protected premises via any zone will trigger an immediate alarm. You and other holders of keyfob transmitters will have no problem, because you can disarm the system before entering by pressing the DISARM (🔓) button on your transmitter before entry.
- B. Skip exit delay:** Pressing the AUX button will immediately cause the system to arm "instant".

Disarming by a keyfob whose battery voltage is low (if enabled by the installer)

If you try to disarm the system with a keyfob whose battery voltage is low, a protest beep will be heard for 15 seconds. During this period you should press again the disarm button of the keyfob or control panel (for the control panel, user code is required) to disarm the system. If you perform this action during the 15 seconds period, the Low Bat acknowledge message will be stored in the event log.

If the disarm button is not pressed again during the 15 seconds period, perform either of the following actions when you want to rearm the system:

- A. Press AWAY twice to arm the system, otherwise the system will not be armed and an acknowledgement (from the user that he knows about the Low Bat) will not be stored in the event log.
- B. Press AWAY and then press disarm button, to acknowledge, otherwise the acknowledgement will not be stored in the event log.

The sounds you will hear while using the control panel are:



Single beep, heard whenever a key is pressed



Double beep, indicates automatic return to the normal operating mode (by timeout).



Three beeps, indicates a trouble event



Happy Tune (- - - —), indicates successful completion of an operation.



Sad Tune (——), indicates a wrong move or rejection

2. Operating the PowerMax10-G2 System

Security-Related Pushbuttons

Key	Function
	Arming when nobody is at home
	Arming when people remain at home
	Canceling the entry delay upon arming ('AWAY-INSTANT' or 'HOME-INSTANT')
	Disarming the system and stopping alarms

Preparing to Arm

Before arming, make sure that **READY** is displayed. This means that all zones are secured and you may arm the system any way you choose.

When the system is not ready for arming (at least one zone is open) the display is **NOT READY TRBL** (trouble), **NOT READY MEM** (memory), **NOT READY MSG** (message) or **NOT READY BYPASS**.

If the system is not ready for arming, click to review the numbers and names of all open zones, one by one.

It is highly recommended to fix the open zone(s), thus restoring the system to the state of "ready to arm". If you do not know how to do this, consult your installer.

IMPORTANT! All arming procedures below are based on the assumption that quick arming has been enabled by the installer. If quick arming is disabled, the PowerMax10-G2 will prompt you to enter your security code before arming.

Arming 'AWAY'

If the system is **READY**, proceed as shown:

PRESS	RESULTANT DISPLAY
	ARMING AWAY
	PLEASE EXIT NOW
	↓ (Exit delay) ↓
Vacate the premises	AWAY

ARM indicator lights steadily during the armed state.

Arming 'HOME'

If all perimeter zones are **READY**, and quick arming is allowed, proceed as shown:

PRESS	RESULTANT DISPLAY
	ARMING HOME
Move to interior zone	↓ (Exit delay) ↓
	AWAY HH:MM

ARM indicator flashes during the armed state.

Switching from 'HOME' to 'AWAY'

Do not disarm the system - just press . The response will be the same as in **ARMING AWAY** above. Vacate the premises before the exit delay expires.

Switching from 'AWAY' to 'HOME'

Do not disarm the system - simply press . Since this operation reduces the security level, the PowerMax10-G2 will ask you to key in your master user code or user code, thus making sure that you are an authorized user.

PRESS	RESULTANT DISPLAY
	ENTER CODE █ █ █ █
[Enter code]	ARMING HOME
Move to interior zone	↓ (Exit delay) ↓
	ARM HOME HH:MM

ARM indicator flashes during the armed state.

If an alarm occurred while the system was armed in the **AWAY** mode, the display will respond differently:

PRESS	RESULTANT DISPLAY
	ENTER CODE █ █ █ █
[Enter code]	ARMING HOME
Move to interior zone	↓ (Exit delay) ↓
	HOME HH:MM
	↶ (alternating) ↷
	ARM HOME MEMORY


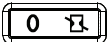
ARM indicator flashes during the armed state.

OPERATING THE POWERMAX10-G2 SYSTEM

Arming AWAY 'Instant'

You may arm AWAY or HOME without an entry delay - any detection in any zone will trigger an immediate alarm.

If you wish to arm AWAY-INSTANT, proceed as follows.



PRESS	RESULTANT DISPLAY
	ENTER CODE █ _ _ _ _
	ARMING AWAY
	ARMING INSTANT
	↶ (alternating) ↷
	PLEASE EXIT NOW
	↓ (Exit delay) ↓
	AWAY

Vacate the premises


 **ARM indicator** lights during the armed state.

Arming HOME 'Instant'

If you wish to arm HOME-INSTANT, proceed as follows:

PRESS	RESULTANT DISPLAY
	ENTER CODE █ _ _ _ _
	ARMING HOME
	ARMING HOME
	↶ (alternating) ↷
	ARM HOME INSTANT
	↓ (Exit delay) ↓
	HOME HH:MM

Move to interior zone

 **ARM indicator** flashes during the armed state.



Forced Arming AWAY

Forced arming allows you to arm the system even though one zone or several zones are disturbed, and the NOT READY message is displayed.


Automatic forced arming only works if the installer allowed this option while programming your system. Disturbed zones will be bypassed - they will not be armed. **The protected site will not have maximum protection.**

Note: When forced arming is carried out, the buzzer "protests" by emitting a continuous tone during the exit delay until the last 10 seconds of the delay. You can silence this signal by pressing the arming button again.

When NOT READY is displayed, Forced arming "AWAY" is performed as follows:



PRESS	RESULTANT DISPLAY
	ENTER CODE █ _ _ _ _
	ARMING AWAY
	PLEASE EXIT NOW
	↓ (Exit delay) ↓
	AWAY

(to mute the buzzer)

 **ARM indicator** lights during the armed state.

Forced Arming HOME

When NOT READY is displayed, Forced arming "HOME" is performed as follows:

PRESS	RESULTANT DISPLAY
	ENTER CODE █ _ _ _ _
	ARMING HOME
	↓ (Exit delay) ↓
	HOME HH:MM

(To mute the buzzer)
Go to interior zone



 **ARM indicator** flashes during the armed state.

Arming in the Latchkey Mode

This mode is useful for a parent at work who wants to be sure that his children have returned from school and have disarmed the system. Arming in the "latchkey" mode means that a special "latchkey" message will be sent out when the system is disarmed by a "latchkey user".

Latchkey users are holders of user codes 5 through 8 or users of Keyfob transmitters 5 through 8. The latchkey message is considered an **alert** and not an alarm, and is therefore sent to the private telephones programmed by the user as targets for alert messages.


Latchkey arming is possible only when you arm "AWAY". To arm in the Latchkey mode, proceed as follows with the appropriate Keyfob:

PRESS	RESULTANT DISPLAY
	ARMING AWAY
	ARMING LATCHKEY
	↶ (alternating) ↷
	PLEASE EXIT NOW
	↓ (Exit delay) ↓
	AWAY

(Within 2 seconds)

Vacate the premises

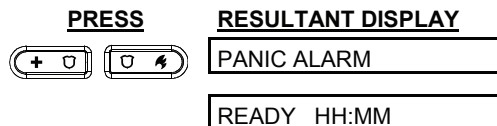
Note: Latchkey must be enabled by your installer.

 **ARM indicator** lights during the armed state.

OPERATING THE POWERMAX10-G2 SYSTEM

Initiating a Panic Alarm

You can generate a panic alarm manually in the disarmed and armed states alike. The sequence will be as shown:

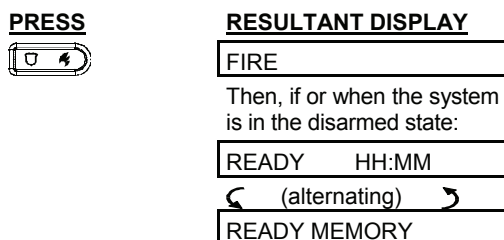


Note: If you are using a key-ring transmitter, press both AWAY and HOME buttons (KF-234) or AUX1 and AUX2 (KF-237) simultaneously for 2 seconds.

To stop the alarm, press and then key in your valid user code.

Initiating Fire Alarm

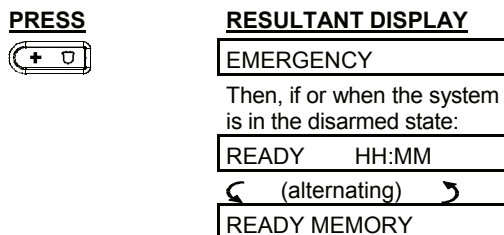
(This function is disabled in ACPO compliant version).
You can generate a fire alarm in disarmed & armed states, as follows:



To stop the alarm, press and then key in your valid user code.

Initiating Emergency Alarm

You can generate an emergency alarm manually in the disarmed and armed states, as follows:

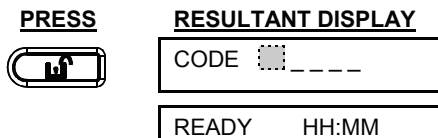


Disarming and Stopping Alarms

(This function is disabled in ACPO compliant version).
Disarming the system stops the siren before it stops automatically, irrespective of whether the alarm was initiated in the armed or the disarmed state.

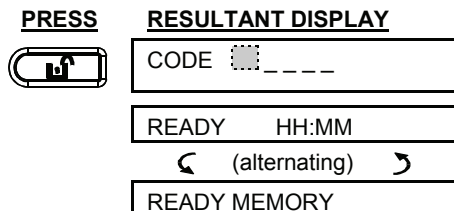
After disarming, different displays may appear, depending on the current status of the system:

A. Disarming - no events: After an uneventful armed term the disarming operation will progress as shown:



ARM indicator extinguishes

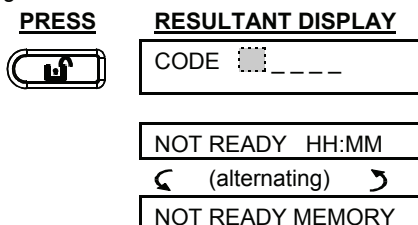
B. Disarming after alarm, with all zones ready: If the zone that alarmed in the armed state is back to normal the disarming operation will progress as shown:



ARM indicator extinguishes.

To read the alarm memory, refer to Chapter 3. The "MEMORY" message will disappear only upon re-arming the system.

C. Disarming after an alarm, with one zone still disturbed: If the zone that alarmed in the armed state is still disturbed the disarming operation will progress as shown:

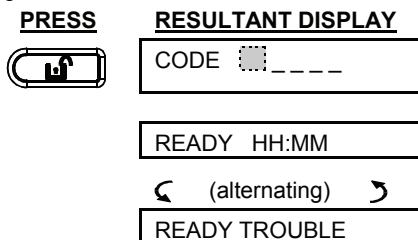


ARM indicator extinguishes



To read the alarm memory, refer to Chapter 3. The "MEMORY" message will disappear only when you rearm the system.

If you do not know how to return the disturbed zone to normal, consult your installer.

D. Disarming with the system in a state of trouble: If trouble is detected in the armed state, the TROUBLE indicator on the front panel will light and the disarming operation will progress as shown:







OPERATING THE POWERMAX10-G2 SYSTEM

 **ARM indicator** extinguishes and  sounds once per minute,

To find out what kind of trouble is being sensed, see Chapter 3. The **TRBL** display will disappear, the **TROUBLE** indicator will extinguish and the trouble beeps will stop upon eliminating the cause for trouble.

- E. Disarming after an alarm, with the system in a state of trouble:** The **TROUBLE** indicator on the front panel will light. If the zone that alarmed while the system was in the armed state reverts to normal mode the disarming operation will progress as shown:

PRESS	RESULTANT DISPLAY
	CODE  _ _ _ _
	READY HH:MM
	↶ (alternating) ↷
	READY TRBL
	↶ (alternating) ↷
	READY MEMORY

 **ARM indicator** extinguishes and  sounds once per minute.

To find out which zone alarmed and what kind of trouble is being sensed, see Chapter 3. The **TRBL** display will disappear, the **TROUBLE** indicator will extinguish and the trouble beeps will stop upon eliminating the cause for trouble. The **MEMORY** message will disappear only upon rearming the system.

- F. Disarming under Duress.** If you are forcibly compelled to disarm the system, enter the duress code (**2580** by default) or another code set by the installer. Disarming will take place normally but a silent alarm will be transmitted to the monitoring station.


Siren Behavior




The total siren time does not exceed the maximum time as configured by the installer.

Continuously ON when initiated by a burglar zone or a 24-hour zone, and when a user initiates a "panic alarm".

When initiated by a fire zone (smoke is detected) **ON - ON - ON - pause - ON - ON - ON - pause -** and so on.



If there is nobody around to disarm the system upon alarm, the siren will sound for the time duration set by the installer - then will stop. The strobe light will keep flashing until the system is disarmed.


When the system is disarmed, the message "<OK> for AWAY" is displayed. Now you can press the  button to immediately arm the control panel, or wait for 3 second for system automatic AWAY arming (the message "Please exit now" will be displayed).

Instead of pressing the  button (see above), you can press the  button once / twice (the message "<OK> for HOME" / "<OK> for disarm" is displayed, accordingly) and then press the press  button for HOME arming / disarming.

Chime ON/OFF

You can disable / enable the chime zones by alternate clicking of the <8> key, as shown below:

PRESS	RESULTANT DISPLAY
	CHIME ON
	CHIME OFF
	↓
	READY HH:MM

 **CHIME indicator** lights steadily when "chime on" is selected.

3. Reviewing Troubles and Alarm memory

Alarm & Tamper Memory

The PowerMax10-G2 retains in its memory alarm and "tamper" events that occurred during the last arming period.

Note: Alarms enter the memory only after expiry of the "abort period" (see Appendix A). This means that if you disarm the system immediately - before the abort period expires - there will be no memory indication

A. Indication of Alarm & Tamper Condition

When the memory contains at least one event and the system is in the disarmed state, a flashing **MEM** message will be displayed, as exemplified:

READY HH:MM

↺ (alternating) ↻

READY MEMORY

or, if the system is not ready for arming -

NOT READY HH:MM




↺ (alternating) ↻


NOT READY MEMORY

B. Displaying Alarm & Tamper Information




To review memory content, click  button.

EXAMPLE 1: An alarm was triggered because the garage door - zone No. 12 - was opened **but then closed**. In addition, the bedroom motion detector - zone No. 7 - sent a "Tamper" message because its cover had been removed.

PRESS	RESULTANT DISPLAY
	READY HH:MM
	Z12 ALARMED
	↺ (alternating) ↻
	GARAGE DOOR
	Z07 TAMPER-OPEN
	↺ (alternating) ↻
	BEDROOM
	↓
	READY HH.MM

In response to additional clicking of the  button, the display shows details of other events retained in open tamper (if any), or reverts to its initial state (see A above).

EXAMPLE 2: An alarm was triggered because the garage door - zone No. 12 - was opened and remained open.

PRESS	RESULTANT DISPLAY
	NOT READY HH:MM
	Z12 ALARMED
	↺ (alternating) ↻
	GARAGE DOOR
	Z12 OPEN
	↺ (alternating) ↻
	GARAGE DOOR
	↓
	NOT READY HH:MM

Remember! The memory indication and content are cleared upon the next arming of the system.

Troubles

A. Indication of Trouble condition


If TRBL flashes in the display, the TROUBLE indicator illuminates, and 3 beeps are sounded once per minute, you will have to investigate the system in order to find out the origin and type of trouble.

B. Displaying Trouble Information

In a state of trouble, a flashing **TRBL** message is displayed as shown in the following examples:

READY HH:MM
↺ (alternating) ↻
READY TRBL
or, if the system is not ready for arming -
NOT READY HH:MM
↺ (alternating) ↻
NOT READY TRBL

The trouble message will appear after the synchronization process following power-up. If the device does not send a message within the first five minutes, this indicates supervision trouble.

You can review the current troubles one by one, by clicking the  button.

EXAMPLE: The kitchen device - zone No. 9 - has been inactive, the living room device - zone No. 15 - has reported a low battery, the utility room device - zone No. 2 - was not successfully enrolled, the front door device - zone No. 5 - was not successfully configured and the garage device - zone No. 11 - communicates using one way communication only. However, these troubles do not prevent the system from being "ready to arm".

To investigate the source of trouble, proceed as follows:

REVIEWING TROUBLES AND ALARM MEMORY

PRESS

RESULTANT DISPLAY



READY HH:MM



Z09 MISSING

(alternating)

Z09 CONTACT

(alternating)

KITCHEN



Z15 LOW BATT

(alternating)

LIVING ROOM

(alternating)

READY HH:MM



Z02 NOT NETWORKD

(alternating)

Z02 CONTACT

(alternating)

UTILITY ROOM



Z05 NOT UPDATED

(alternating)

Z05 CONTACT

(alternating)

FRONT DOOR



Z11 BAD COMM

(alternating)

Z11 CONTACT

(alternating)

GARAGE

In response to further clicking of the button, the display will show details of other troubles (if any), or will revert to the initial alternating displays (see example above).

IMPORTANT! If the trouble beeps bother you, disarm the system again (even though it is already disarmed). This will cancel the trouble beeps for 4 hours.

Reviewing Memory & Troubles at the Same Time

If **alarms / tamper events** are retained in the alarm memory and at the same time a state of **trouble** exists, the display will behave as shown below:

READY HH:MM

(alternating)

READY MEMORY

(alternating)

READY TRBL

or, if the system is not ready for arming -

NOT READY HH:MM

(alternating)

NOT READY MEMORY

(alternating)

NOT READY TRBL

To read status information - memory data, open zones and trouble sources (in this order) - click the button repeatedly. The memory content will be displayed first, in the same manner shown in Chapter 5 - Reviewing Alarm / Tamper Memory. If the system is not ready, open zone information will follow in the same manner as shown in Chapter 2 - Preparing to Arm. Trouble sources will be displayed last, in the same manner shown in Chapter 5 - Reviewing Trouble Information.

Correcting Trouble Situations

The trouble indications (illuminated TROUBLE indicator and flashing TRBL message) are cleared once you eliminate the cause for trouble. **If you do not know how to cope with a trouble situation, report it to your installer and seek his advice.**

REVIEWING TROUBLES AND ALARM MEMORY

Fault	What it means
1-WAY	The control panel cannot configure or control the device. Battery consumption increases.
NOT NETWORKED	A device was not installed or not installed correctly, or, cannot establish communication with the control panel after installation.
MISSING	A device or detector has not reported for some time to the control panel.
JAMMING	A radio-frequency signal which is blocking communication channel of sensors and control panel is detected.
LOW BATTERY	The battery in a sensor, keyfob or wireless commander is near the end of its useful life.
CLEAN ME	The fire detector must be cleaned
GAS TROUBLE	Gas detector failure
SIREN AC FAILURE	There is no power to the siren
AC FAILURE	There is no power to gas sensor
GSM NET FAIL	The GSM communicator is not able to connect to the cellular network.
RSSI LOW	The GSM communicator has detected that GSM network signal is weak
AC SUPPLY FAILURE	There is no power and the system is working on backup battery power
COMM. FAILURE	A message could not be sent to the monitoring station or to a private telephone (or a message was sent but was not acknowledged)
CPU LOW BATTERY	The backup battery within the control panel is weak and must be replaced (see Chapter 7 - Replacing Backup Battery).
CPU TAMPER	The control panel was physically tampered with or its cover was opened, or it was removed from wall.
FUSE TROUBLE	The PGM fuse is burnt out or overloaded.
LINE FAILURE	There is a problem with the telephone line

4. Menus and Functions

This chapter explains the programming features of your PowerMax10-G2 system and allows you to tailor the PowerMax10-G2 system according to your specific needs. The chapter is divided into three sections, as follows:

Part A – Provides you with a general description of available User Setting options.

Part B – Guides you how to enter/exit the User Settings menu and how to select the desired setting options.

Part C – Allows you to execute the selected desired settings.

A The Settings You Need

The installer provides you with a ready-to-use alarm system, but a number of settings will still be needed. The User Settings menu provides you with essential options that allow you to adapt the system to your specific needs, to operate it as you desire and to upgrade it when necessary.

Below is a list of the User Settings menu options. A more detailed list is provided in section B.1. Detailed setting instructions for options 1 to 12 are provided in sections C.1 to C.12.

1. Setting the zone bypass scheme(*)
2. Reviewing the zone bypass scheme(*)
3. Recalling the zone bypass scheme(*)
4. Programming user codes(**)
5. Add / delete keyfob transmitters (**)
6. Setting the time & time format(**)
7. Setting the date & date format(**)
8. Enabling / disabling auto-arming(**)
9. Setting the auto-arming time(**)
10. Programming private phone numbers(**)
11. Enabling / disabling the squawk option(**)
12. Programming the scheduler(**)

* These menu options are available only if the bypass option was enabled by the installer.

** This option can be accessed only by the master user using the master user code.

Note 1: Although the user settings are your responsibility, you may request your installer to perform them for you (except for the user codes which you desire to keep secret).

Note 2: Some options may not be available on your PowerMax10-G2 system.

B.1 Entering the User Settings Menu & Selecting a Setting Option


The following procedure describes how to enter and move within the User Settings menu.

Detailed descriptions of the User Setting options are provided at the end of the procedure.

To exit the User Settings menu – see section B.3.

- ① 1. You can enter the "User Settings" menu only when the system is disarmed.
2. Carefully read the section titled "Additional Information" according to the indicated references ¹ etc – see table at end of this section.

A. To Enter the User Settings Menu

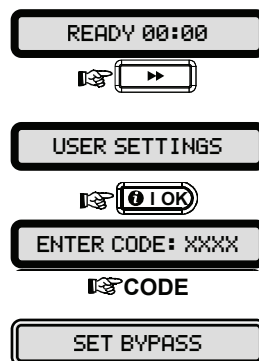
- ① a) Make sure the system is disarmed and then press the  button repeatedly until the display reads "USER SETTINGS".¹

- b) When the display reads [USER SETTINGS], press .

The screen will now prompt you to enter your user code.

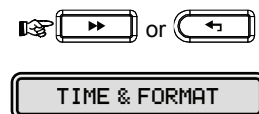
- ② Enter your User Code.²


The display reads the first Setting option of the User Settings menu [SET BYPASS].³



B. To Select a Setting Option

- ③ Click the  or  button until the display reads the desired setting option, for example, "Time & Format".



- ④ When the desired setting option appears on the display, press the  button to enter the setting process.



The remainder of the procedures for the selected setting options 1 to 13 is provided in sections C.1 to C.13.

Continue to the selected setting option

Additional Information (section B.1)

- ¹ Display shown in disarm state when all zones are secured (00:00 or other digits show present time).
- ² a. If you have not already changed your personal code number, use the default setting – 1111.
b. The Master User has access to all User Settings options. All other users have access only to the Bypass options.
- ³ The bypass options will be displayed in the User Settings menu only if enabled by the installer. Otherwise, the first user setting option displayed will be [Private Report].

MENUS AND FUNCTIONS

C. User Setting Options Menu

To select the displayed setting option – press the  button.

Use to set the Zone Bypass Scheme i.e. to bypass (exclude) faulty or unsecured zones, or to clear a bypassed zone (unbypass). For further details and programming procedure **see section C.1.**³

Use to quickly review the Bypass Scheme i.e. which zones are in bypassed state. For further details and reviewing procedure **see section C.2.**³

Use to Recall the most recent bypassed scheme for use in next arming period. For further details and recalling procedure **see section C.3.**³

Use to program your Master User secret access code and the seven codes of the other users. For further details and programming procedure **see section C.4.**

Use to add new Keyfob Transmitters or to delete Keyfob Transmitters when lost. For further details and programming procedure **see section C.5.**

Use to set the built-in clock to show the correct time and time format. For further details and programming procedure **see section C.6.**

Use to set the built-in calendar date to show the correct date and date format. For further details and programming procedure **see section C.7**

Use to enable or disable the Automatic Daily Arming at predefined times (see Auto-Arm Time setting). For further details and programming procedure **see section C.8.**

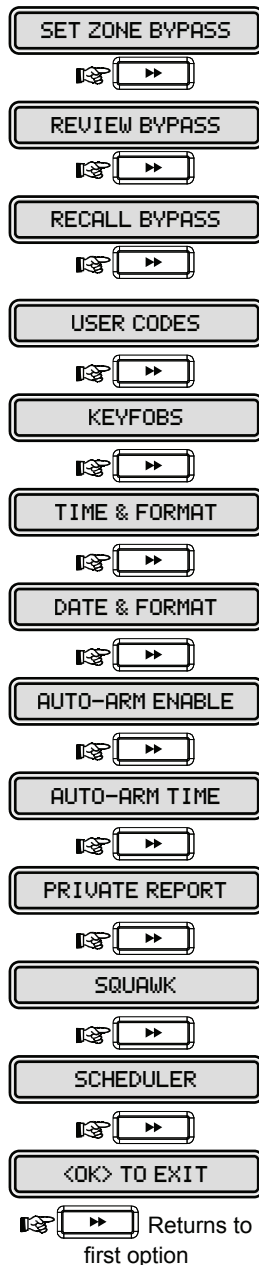
Use to set the predetermined time for the Automatic Daily Arming if enabled (see Auto-Arm Enable setting). For further details and programming procedure **see section C.9.**

Use to program the four private telephone numbers for reporting alarm and other event messages to private subscribers. For further details and programming procedure **see section C.10**

Use to enable or disable the squawk sound i.e. arm / disarm feedback indication. For further details and programming procedure **see section C.11.**

Use to set the daily / weekly time schedule for start & stop activation of PGM devices. For further details and programming procedure **see section C.12.**

Use to exit from the USER SETTING menu back to Main Menu. For further details **see section B.3.**




B.2 Returning to the Previous Step or Exiting the USER SETTINGS Menu

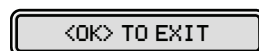
During the setting process it is frequently necessary to return to the previous setting step or option (i.e. "to go one level up") or to exit the User Settings menu. To facilitate these actions, the PowerMax10-G2 system offers you two alternative methods to choose from.

A. To Move One Level Up

To move one level up during the setting process, use one of the following two methods:

Method #1 – Scrolling:


Click the ▼ or ▲ button until the display reads [OK] TO LEAVE] and then press the  button.





or



Method #2 – Use the HOME key:

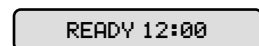
Click the  button once or more. Each click will take you one level up or to the previous setting step.

B. To Exit the USER SETTINGS Menu

To exit "User Settings", press the  button repeatedly (see above) until the display reads [OK] TO EXIT] or; press the  button once.







When the display reads [OK] TO EXIT], press .

The system exits the User Settings menu and returns to the normal disarm state while showing the READY display.



B.3 Buttons used for Navigation & Setting

The keypad's buttons are used for various functions when programming. The following table provides a detailed description of the function or use of each button.

Button	Navigation / Setting Function
	Use to move / scroll forward to the next menu options.
	Use to move / scroll back to the previous menu options.
	Use to select a menu option or to confirm a setting or action .
	Use to move one level up in the menu or to return to previous programming/setting step .
	Use to jump back to the [OK] TO EXIT] screen to quit programming.
	Use to cancel, delete, clear or erase setting, data, etc.
0 - 9	Numerical keypad used to enter numerical data.

MENUS AND FUNCTIONS

C.1 Setting the Zone Bypass Scheme

Bypassing permits arming only part of the system while allowing free movement of people within certain zones when the system is armed.

It is also used to temporarily remove from service faulty zones that require repair work or to deactivate a sensor if, for example, you are decorating a room.

- ◆ Here you can set the Zone Bypass Scheme i.e. to scroll through the list of registered (enrolled) sensors to your PowerMax10-G2 system and to Bypass (deactivate) faulty or disturbed sensors (either READY or NOT-READY) or to Clear (reactivate) BYPASSED zones (sensors).

Once you have set a Bypass Scheme you can use the following 3 options:


- > To quickly review the bypassed zones – refer to section C.2.
- > To quickly clear a bypassed zone i.e. to reactivate the bypassed zone – refer to section C.2.
- > To repeat (recall) the most recent zone bypassing scheme – refer to section C.3.

- ① *1. Zones will be bypassed throughout one disarm-arm period only. Disarming the system after arming will suspend the entire bypassing scheme.*
- 2. Fire zones cannot be bypassed.*
- 3. Carefully read the section titled "Additional Information" according to the indicated references ¹ etc – see table at end of section C.3.*



REMEMBER – ZONE BYPASSING COMPROMISES SECURITY!


A. To Bypass a Zone

- ① Enter the USER SETTINGS menu and select the [SET ZONE BYPASS] option.¹

When the display reads [SET ZONE BYPASS] press .

The first Zone, Z01, is displayed.²

- ② Click the  or  button until the display reads the zone you wish to bypass (or clear bypass), for example, "Z04" for Zone 04.

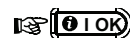
- ③ When the zone you wish to bypass appears on the display, press  to confirm.

- ④ The display now reads [<OK> TO BYPASS].³

To bypass the selected zone press .

A "Happy Tune" 🎵📢 sounds. The display reads [Zone BYPASSED] and then returns to step ②. The zone status is now changed to BYPASSED.⁶

SET ZONE BYPASS



Z01: READY



Z01: Living Room



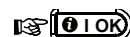
Z04: NOT READY



Z04: Kitchen




<OK> TO BYPASS



Zone BYPASSED


🎵📢 Return to ②

B. To Clear a Bypassed Zone

- ⑤ Repeat steps ① to ④ above.
- ⑥ When the zone you wish to clear bypass appears on the display (for example, "Z04"), press  to confirm.

The display now reads [<#> TO CLEAR].³

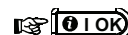
- ⑦ To clear the bypassed zone press the  button.

A "Happy Tune"  sounds. The display reads [BYPASS CLEARED] and then returns to step ②. The zone status is now changed to READY or NOT READY according to the zone status.⁶

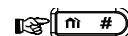
Z04: BYPASSED




Z04: Kitchen



<#> TO CLEAR




BYPASS CLEARED

 Return to ②



C.2 Reviewing the Zone Bypass Scheme

- ◆ Here you can quickly review the Bypass Scheme i.e. the zones that are set to be bypassed during the next arming session.

- ① Enter the USER SETTINGS menu and select the [REVIEW BYPASS] option.¹

When the display reads [REVIEW BYPASS] press .

The first bypassed zone is displayed, for example, "Z04".

- ② Click the  or  buttons repeatedly to review all bypassed zones in ascending numerical order. When done, the display returns to the User Settings menu (step ①).⁷

REVIEW BYPASS



Z04: BYPASSED



Z04: Kitchen

C.3 Recalling the Zone Bypass Scheme


- ◆ Use this option to repeat (recall) the most recent Bypassed Scheme for use during the next arming session.

- ① Enter the USER SETTINGS menu and select the [RECALL BYPASS] option.¹

When the display reads [RECALL BYPASS] press .

- ② The display now reads [<OK> TO RECALL].⁴

To recall the most recent bypass scheme press .

A "Happy Tune"  sounds. The display reads [BYPASS RECALLED] and then returns to the User Setting menu, step ①.⁶


RECALL BYPASS



<OK> TO RECALL







BYPASS RECALLED

 Return to ①

MENUS AND FUNCTIONS

Additional Information (section C.1 – C.3)

1	For detailed instructions on how to select the Setting Options – refer to section B.1 and section B.2.
2	<p>a. The STATUS to the right of the zone number indicates whether the zone is READY, NOT-READY or BYPASSED.</p> <p>b. In the example on the right the display reads [Z01: READY] alternating with [Z01: Living Room].</p>
3	<p>a. If the zone you selected is "not bypassed", the display prompts you to press [⟨OK⟩ TO BYPASS]. However, if the zone you selected is already "bypassed", the display prompts you to press [⟨#⟩ TO CLEAR].</p> <p>b. To abort and return to step ② press the  button, the display will read [⟨OK⟩ TO SKIP], then press .</p>
4	The display now prompts you to press [⟨OK⟩ TO RECALL] i.e. to repeat the most recent bypass scheme. If you wish to abort and return to the User Setting menu i.e. step ① press the  button, the display will read [⟨OK⟩ TO SKIP], then press  .
5	You can now repeat steps ② - ④ to bypass or clear another zone. To end this session and to select other menu options or to quit programming - follow the instructions in section B.3.
6	You can now select another option in the User Setting menu (see section B.1 and section B.2), or quit programming (see section B.3).

C.4 Programming User Codes

The PowerMax10-G2 system allows you to authorize up to 8 people to arm and disarm the system by providing each with a unique 4 digit personal security code, and assigning them with different security levels and functionalities. There are two types of users: Master User and User, The table below summarizes the different operations that can be performed by different users:

User type	Function
Master User	Arm/disarm Zone bypass Authorize 7 other user codes Set user codes Report to private Enroll/delete keyfob Automatic arming Enable squawk Set date and time format Read event log
User	Arm/disarm Zone bypass

The 8 user codes are assigned as follows:

User Code 1 is assigned to the Master User of the system (i.e. the owner). It is the only user code that allows access to the User Setting menu. The default setting of the Master User code 1 is 1111. This code cannot be erased and must be replaced with a secret code as soon as possible.

User Codes 2-4 are assigned to family members, co-workers etc. They enable arming and disarming of the system as defined by the Master User. They can access the "User Setting" menu only for "zone bypassing" provided this option is enabled in the Installer menu.

User Codes 5-8 are the same as user codes 2-4 but are assigned to "Latchkey" (child monitor) users. For a detailed explanation of the Latchkey application see Chapter 4 in this User Guide.

♦ Here you can program (or edit) the 8 User Codes and define which will be authorized to arm and disarm.




- ① *The default setting 1111 of Master User Code 1 is the same for all PowerMax10-G2 systems and is known to many other people. Therefore, we highly recommend that you immediately replace it with a unique secret code.*
2. *Code "0000" is not valid! Do not use it.*
3. *The duress code (2580 by default), which is set in the installer menu, cannot be selected as a normal user code. Any attempt to program it will be rejected by the system.*
4. *Carefully read the section titled "Additional Information" according to the indicated references ¹ etc – see table at end of this section.*

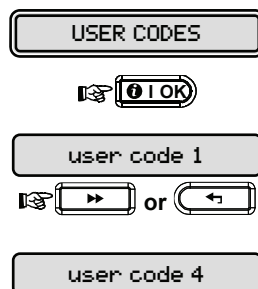
A. To Program a User Code

- ① Enter the USER SETTINGS menu and select the [USER CODES] option.¹


When the display reads [USER CODES] press .

The first user code "user code 1" is displayed.²

- ② a) Click the  or  button until the display reads the User Code you wish to program, for example, "user code 4".
- b) When the user code you wish to program appears on the display, press  to confirm.



MENUS AND FUNCTIONS

- ③ a) To program or edit the code, use the numerical keypad to enter the 4 digit code (e.g. 5327) at the position of the blinking cursor.^{3 4}
- b) When done, press  to confirm.

A "Happy Tune" 🎵🎶 sounds. The display confirms the saved code.

The display returns to step ② showing "User 4 Code" as programmed (■).^{5 6}






user code 4 ■327



user code 4 5327

🎵🎶 Return to ②

Additional Information (section C.5)

1	For detailed instructions How to select the Setting Options – refer to section B.1 and section B.2.
2	<p>a. The display shows the 1st User Code (Master User) in the list of 8 User Codes. If you have not yet changed the default code 1111, we recommend that you change it now.</p> <p>b. The box on the right indicates whether the location is already programmed (■) or if the location is free (□).</p>
3	<p>a. The display shows the user code currently programmed in this location (e.g. 5327).</p> <p>b. The cursor blinks on the first digit of the code.</p> <p>c. If the location is free the display will be blank (- - -).</p>
4	You can move the cursor to the next or previous digit using the  /  buttons. Pressing the  button erases the digit of the cursor + all digits right of the cursor.
5	The new code is now displayed without the cursor.
6	You can now repeat steps ② - ⑤ to program or edit another user code. To end this session and to select other menu options or to quit programming – follow the instructions in section B.3.




C.5 Add / Delete Keyfob Transmitters

Each of the 8 PowerMax10-G2 users may be provided with a portable keyfob transmitter to exercise better, quicker and safer arming/disarming and other control functions. Each keyfob should be assigned with a serial No. (1-8) that corresponds to user No. (1-8) and enrolled into the PowerMax10-G2 system.

◆ Here you can add (enroll) the 8 Keyfob transmitters.

- ① 1. Before anything else, gather up all keyfob units you intend to enroll and make sure they all have batteries installed and that they are active (the LED blinks upon pressing any of the buttons).
2. Carefully read the section titled "Additional Information" according to the indicated references¹ etc – see table at end of this section.

A. To Add (Enroll) a Keyfob

- ① Enter the USER SETTINGS menu and select the [KEYFOBS] option.¹
- ② When the display reads [ADD/DEL KEYFOBS] press .
The display will read [ADD NEW KEYFOB].³
- ③ Press . You are now instructed to enroll the keyfob.²
- ④ Press the AUX button on the selected keyfob until the orange LED begins to blink and then release it. Press the AUX button again until the LED lights and then release it.
-or-
Enter the 7-digit number that appears on the keyfob sticker and then press .

The display reads [DEVICE ENROLLED] (or [ID accepted] if the keyfob was enrolled manually by entering the ID number), a "Happy Tune" 🎵😊 sounds and the display will then change to [K01:Keyfob].

KEYFOBS

ADD NEW KEYFOB

ENROLL NOW or







ENTER ID No

DEVICE ENROLLED

🎵😊

K01:Keyfob

B. To Delete a Keyfob

- ① Repeat step ① above.
- ② Click the  button. When the display reads [DELETE KEYFOB] press .
The display will read [K01:Keyfob].²
- ③ Click the  or  button until the display reads the Keyfob No. you wish to delete, for example, "K06:Keyfob".
- ④ When the keyfob you wish to delete appears on the display, press .⁴
The display now reads [⟨OFF⟩ TO DELETE].⁵



DELETE KEYFOB

K01:Keyfob


  or 

K06:Keyfob

⟨OFF⟩ TO DELETE

MENUS AND FUNCTIONS

⑤ To delete the keyfob press the  key.



A "Happy Tune" 🎵😊 sounds and the display reads [DELETE KEYFOB].



DELETE KEYFOB



Additional Information (section C.6)

1	For detailed instructions on how to select the Setting Options – refer to section B.1 and section B.2.
2	The display shows the 1st Keyfob (Keyfob No. 1) of the 8 keyfobs.
3	To abort enrollment press the  button.
4	To Delete a keyfob, make sure that a keyfob is enrolled in that location.
5	<p>a. If a keyfob is enrolled (■) the display prompts you to press [⟨OFF⟩ TO DELETE].</p> <p>b. To abort press the  button.</p>

C.6 Setting the Time & Time Format

- ◆ Here you can program or adjust the built-in-clock to show the correct time in the desired time format.
- ◆ You can select between a 24 hour and a 12 hour (AM/PM) time format.




① Carefully read the section titled "Additional Information" according to the indicated references¹ etc – see table at end of this section.

A. To Set the Time Format

- ① Enter the USER SETTINGS menu and select the [TIME & FORMAT] option.¹

When the display reads [SET TIME & FORMAT] press .

The display shows the currently selected time format.²

- ② a) Click the  or  button until the display reads the desired time format, for example, "US FORMAT-12H".
- b) When the desired time format appears on the display, press  to confirm.

TIME & FORMAT

EU FORMAT-24H ■



  or 

US FORMAT - 12 H

TIME 12:40P

B. To Set the Time³






- ③ a) Use the numerical keypad to enter the correct time, for example, "08:55 AM" at the position of the blinking cursor.^{4,5}
- b) Use the  button to toggle between AM & PM (if "US FORMAT - 12 H" was selected).
- c) When you are satisfied with the setting, press  to confirm.

A "Happy Tune" 🎵🎶 sounds to confirm the set time.^{7,6}

US FORMAT-12H ■

Additional Information (section C.10)

¹	For detailed instructions on how to select the Setting Options – refer to section B.1 and section B.2.
²	a. The display shows the currently selected format (indicated by a ■ symbol), for example, "24 Hrs". b. You can now select either the 12 Hrs or 24 Hrs time format using the  or  buttons.
³	The display shows the Time and selected Time Format, for example, "12:40 PM", with the cursor blinking on the first hour digit "0".
⁴	a. When the cursor blinks on "h", this indicates hour digit and "m", this indicates minute digit. b. You can move the cursor to the next or previous digit using the  or  buttons.
⁵	Use the  button to toggle between AM and PM formats.
⁶	a. The time is displayed without the cursor, for example, "08:55 A". b. The letter that follows the displayed time indicates one of the following: "A" = AM; "P" = PM and "none" for 24 Hrs time format.
⁷	You can now select another option in the User Setting menu (see section B.1 and section B.2), or quit programming (see section B.3).
⁸	This setting can be performed only after completing steps ① - ② of section C.10A.

MENUS AND FUNCTIONS

C.7 Setting the Date & Date Format

- ◆ Here you can program or adjust the built-in-calendar to show the correct date in the desired date format.
- ◆ You can select between a "mm/dd/yyyy" and a "dd/mm/yyyy" date format.




① Carefully read the section titled "Additional Information" according to the indicated references¹ etc – see table at end of this section.

A. To Set the Date Format

- ① Enter the USER SETTINGS menu and select the [DATE & FORMAT] option.¹

When the display reads [SET DATE & FORMAT] press .

The display shows the currently selected format.²

- ② a) Click the  or  button until the display reads the desired date format, for example, "DD/MM/YYYY".
- b) When the desired date format appears on the display, press  to confirm.

DATE & FORMAT



DATE MM/DD/YYYY ■



DATE DD/MM/YYYY




Date: d0/12/2007





DATE DD/MM/YYYY ■



B. To Set the Date^{3 4 5 8}

- ③ a) Use the numerical keypad to enter the correct date, for example, "20.02.2008" at the position of the blinking cursor.
- b) When you are satisfied with the setting, press  to confirm.

A "Happy Tune" 🎵 😊 sounds to confirm the saved date.^{6 7}

Additional Information (section C.11)	
1	For detailed instructions on how to select the Setting Options – refer to section B.1 and section B.2.
2	The display shows the currently selected format (indicated by a ■ symbol), for example, "mm/dd/yyyy". b. You can now select either the "mm/dd/yyyy" or "dd/mm/yyyy" date format using the (▼/▲) buttons.
3	The display shows the Date and selected Date Format, for example, "30.12.2007", with the cursor blinking on the first digit.
4	a. When the cursor blinks on "m", this indicates month digit, "d" indicates day digit and "y" indicates year digit. b. You can move the cursor to the next or previous digit using the  or  buttons.
5	For the year, enter the two last digits only.
6	You can now select another option in the User Setting menu (see section B.1 and section B.2), or quit programming (see section B.3).
7	This setting can be performed only after completing steps ① - ② of section C.11A.


C.8 Enabling / Disabling Auto-Arming

The PowerMax10-G2 system can be programmed to automatically arm itself on a daily basis at a predetermined time. This feature is useful especially in commercial applications, such as in stores, to ensure that the system is always armed and without having to assign security codes to employees.




- ◆ Here you can enable (activate) and disable (stop) the Auto-Arming. To set the Auto-Arming time – see section C.8.

① Carefully read the section titled "Additional Information" according to the indicated references¹ etc – see table at end of this section.

- ① Enter the USER SETTINGS menu and select the [AUTO-ARM ENABLE].¹

When the display reads [AUTO-ARM OPTION] press .


The display shows the currently selected setting.²

- ② a) Click the  or  button until the display reads the desired setting, for example, "enable autoarm".
- b) When the desired setting format appears on the display, press  to confirm.

A "Happy Tune" 🎵🔊 sounds. The display confirms the saved setting, then returns to the User Setting menu, step ①.^{5,3}

AUTO-ARM ENABLE

Disable autoarm 

  or 

enable autoarm


 

🎵🔊 Return to ①

C.9 Setting the Auto-Arming Time


- ◆ Here you can program the exact time of the Auto-Arming.

- ① Enter the USER SETTINGS menu and select the [AUTO-ARM TIME] option.¹

When the display reads [AUTO-ARM TIME] press .

The display shows the current setting of the Auto-Arm Time

- ② To set or change the Time, use the same instructions as described in section C.8 step ③.⁴

When you are satisfied with the setting, press  to confirm.

A "Happy Tune" 🎵🔊 sounds. The display confirms the saved time, then returns to the User Setting menu, step ①.⁵

AUTO-ARM TIME

arm time 12:00P



See section C.10 step ③

🎵🔊 Return to ①

MENUS AND FUNCTIONS

Additional Information (section C.07 - section C.08)

1	For detailed instructions on how to select the Setting Options – refer to section B.1 and section B.2.
2	<p>a. The display shows the current setting format (indicated by a ■ symbol), for example, "Disable autoarm".</p> <p>b. You can now select either to activate (ON) or deactivate (OFF) auto-arming using the  or  buttons.</p>
3	The ■ symbol now appears next to the new selected option.
4	The display shows the current setting of the Auto-Arm Time, for example, "07:30 PM", with the cursor blinking on the first hour digit "0".
5	You can now select another option in the User Setting menu (see section B.1 and section B.2), or quit programming (see section B.3).

C.10 Programming Private Phone Numbers



The PowerMax10-G2 system allows you to determine which event groups will be reported to private telephone subscribers. The PowerMax10-G2 system can also be programmed by the installer to report various event messages such as alarm, arming or trouble, to 4 private telephone subscribers and to 4 SMS telephone numbers either instead of or in addition to the reports transmitted to the monitoring company. You can determine the number of times the private telephone number is dialed and whether to use a single acknowledge signal or an acknowledge signal from each telephone before the current event is considered reported.



Reported events and the number of reported attempts are programmed in the "Installer Settings" (for further details see Chapter 6 in this manual).


- ◆ Here you can program the 1st, 2nd, 3rd, and 4th private telephone numbers for reporting alarm and other event messages to private subscribers.
- ◆ Here you can program the 1st, 2nd, 3rd, and 4th SMS telephone numbers for reporting alarm and other event messages to private subscribers.

① Carefully read the section titled "Additional Information" according to the indicated references¹ etc – see table at end of this section.

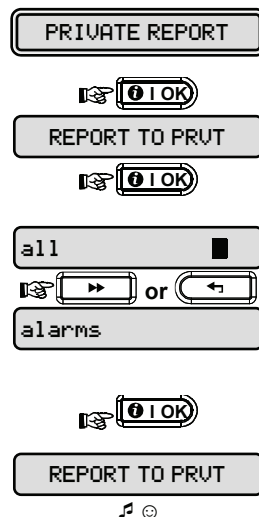
A. To Program Event Group Report

- ① a) Enter the USER SETTINGS menu and select the [PRIVATE REPORT] option.¹
- b) When the display reads [PRIVATE REPORT] press .
- The display will read [REPORT TO PRVT].
- c) Press .






- ② Click the  or  button until the display reads the event group you wish to be reported, for example, "alarms".
- Select between: "disable report"; "all"; "all (-op/cl)" (all messages except opened/closed); "all (-alerts)" (all messages except alerts); "alarms"; "alerts"; "op/cl" (opened/closed).

- ③ When you are satisfied with the setting, press  to confirm.⁶

A "Happy Tune" 🎵📶 sounds to confirm the set event to be reported.




B. To Program SMS Telephone Numbers


- ① a) Click the  or  button until the display reads [SMS REPORT TEL#].
- b) When the display reads [SMS REPORT TEL#] press .
- ② a) Click the  or  button until the display reads the desired SMS phone number you wish to program or edit, for example, "4th SMS tel #".²



MENUS AND FUNCTIONS

b) When the desired SMS phone number appears on the display, press  to confirm.

- ③ a) To program or edit the phone No. Use the numerical keypad to enter the SMS phone number digits (e.g. 8032759333) at the position of the blinking cursor.^{4 5}


b) When done, press  to confirm.



A "Happy Tune" 🎵😊 sounds to confirm the set SMS phone number.⁷




C. To Program a Private Phone


- ① a) Click the  or  button until the display reads [VOICE REPORT].

b) When the display reads [VOICE REPORT] press .

- ② a) Click the  or  button until the display reads the desired Telephone No. you wish to program or edit, for example, "4th Private tel#".²

b) When the desired private telephone appears on the display, press  to confirm.



- ③ a) To program or edit the phone No. Use the numerical keypad to enter the phone number digits (e.g. 8032759333) at the position of the blinking cursor.^{4 5}


b) When done, press  to confirm.



A "Happy Tune" 🎵😊 sounds to confirm the set phone number.⁷




D. To Program the number of redial attempts

- ① a) From the **Voice Report** sub-menu (see the previous section), click the  or  button until the display reads [Redial attempts].

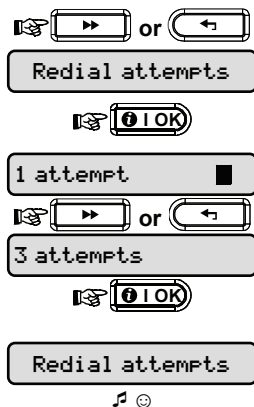
b) When the display reads [Redial attempts] press .

- ② a) Click the  or  button until the display reads the desired number of redial attempts, for example, "3 attempts".¹







b) Select between: "1 attempt"; "2 attempts"; "3 attempts"; "4 attempts".

c) When you are satisfied with the setting, press  to confirm.⁶

A "Happy Tune" 🎵😊 sounds to confirm the set number of redial attempts.





E. To Program the Acknowledge Signal

- ① a) From the **Voice Report** sub-menu, click the  or  button until the display reads [Tel. acknowledged].
b) When the display reads [Tel. acknowledged] press .
- ② a) Click the  or  button until the display reads the desired acknowledge signal, for example, "all ack".³
b) When you are satisfied with the setting, press  to confirm.⁶



A "Happy Tune" 🎵😊 sounds to confirm the set acknowledge signal.

Additional Information (section C.4)	
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1	<i>For detailed instructions on how to select the Setting Options – refer to section B.1 and section B.2.</i>
2	<i>The display shows the 1st of the 4 Private Telephone Numbers / SMS phone numbers.</i>
3	<i>The box on the right indicates whether the location is already programmed (■).</i>
4	<i>a. The display shows the phone number currently programmed in this location (e.g. 8032759641).</i> <i>b. The cursor blinks on the first digit of the code.</i> <i>c. If the location is free the display will be blank (- - -).</i>
5	<i>You can move the cursor to the next or previous location (digit) using the  or  buttons.</i>
6	<i>The ■ symbol now appears next to the new selected option.</i>
7	<i>You can now repeat steps ② - ③ to program or edit another phone number / SMS phone number, or to end this session.</i>

C.11 Enabling / Disabling the Squawk Option

The PowerMax10-G2 system (and its wireless sirens) can be set to produce a short "Squawk" of audible feedback to assist you when you use your keyfob to arm (1 beep) and disarm (2 beeps) the PowerMax10-G2 system (operates in a similar manner to a car alarm).

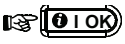
◆ Here you can enable / disable the Squawk.

① Carefully read the section titled "Additional Information" according to the indicated references¹ etc – see table at end of this section.

① Enter the USER SETTINGS menu and select the [SQUAWK] option.¹



When the display reads [SQUAWK] press



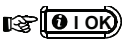
② To enable / disable or set the Squawk.²



a) Click the or button until the display reads the desired setting, for example, "Squawk ON".



b) When the display reads the desired setting, press to confirm.



A "Happy Tune" 🎵😊 sounds. The display confirms the saved setting, then returns to the User Setting menu, step ①.^{4 3}

🎵😊 Return to ①

Additional Information (section C.09)	
1	For detailed instructions on how to select the Setting Options – refer to section B.1 and section B.2.
2	a. The display shows the currently selected setting (indicated by a ■ symbol), for example, "Squawk ON". b. You can now select either to enable (ON) or disable (OFF) the Squawk using the or buttons.
3	The ■ symbol now appears next to the new selected option.
4	You can now select another option in the User Setting menu (see section B.1 and section B.2), or quit programming (see section B.3).

C.12 Programming the Scheduler

The PowerMax10-G2 system includes a Home Automation option that enables activation of a PGM output according to a programmable weekly time schedule.

- ◆ Here you can schedule for the PGM up to 4 different ON/OFF time activations per any desired day or days of the week. In addition, you can schedule a "Daily" schedule that applies to every day of the week. It is recommended to complete the Scheduler table (placed at the end of this section) before programming the Scheduler.


① *Carefully read the section titled "Additional Information" according to the indicated references¹ etc – see table at end of this section.*

A. To Select the Device No.




- ① Enter the USER SETTINGS menu and select the [SCHEDULER] option.¹

When the display reads [SCHEDULER] press .




The display reads [PGM].

- ② Press .

B. To Set the Day²


- ③ a) Click the  or  button until the display reads the day you wish to schedule or "Daily", for example, "Tuesday".
- b) When the "day" you wish to schedule appears on the display, press  to confirm.

C. To Select the Activation No.³

- ④ a) Click the  or  button until the display reads the activation you wish to schedule, for example, "operation No 3".
- b) When the "activation no." you wish to schedule appears on the display, press  to confirm.


D. To Set the ON (Start) Time⁴

- ⑤ To set or change the operation **ON (start)** time, follow the instructions in section C.10 step ③.

When you are satisfied with the setting, press  to confirm.

E. To Set the OFF (Stop) Time⁵

- ⑥ To set or change the operation **OFF (stop)** time, follow the instructions in section C.10 step ③.

When you are satisfied with the setting, press  to confirm.

A "Happy Tune" 🎵🔊 sounds to confirm the saved schedule.⁶

SCHEDULER

PGM

Sunday

  or 

Tuesday

operation No 1

  or 

operation No 3

Start- HH:MM

See section C.10 step ③

Stop- HH:MM



See section C.10 step ③

🎵🔊

MENUS AND FUNCTIONS

Additional Information (section C.12)

1	For detailed instructions How to select the Setting Options – refer to section B.1 and section B.2.
2	If you wish to activate the selected device on every day of the week at the same time(s), use the "Daily" option. Otherwise, use the  or  buttons to select the specific day (Sunday, Monday, Tuesday...etc) you wish to activate the previously selected device. You can later repeat the process for other days of the week, if desired.
3	The display shows "Operation No 1" which is the first of the 4 ON/OFF time activations you can schedule for the day selected in the previous step. You can later repeat the process for the other 3 activations on the selected day, if desired.
4	<p>a. The display shows the current ON (start) time setting of the selected activation with the cursor blinking on the first hour digit.</p> <p>b. If no time is programmed, the time display will be blank (- :- - -).</p>
5	<p>a. The display shows the current OFF (stop) time setting of the selected activation with the cursor blinking on the first hour digit.</p> <p>b. If no time is programmed, the time display will be blank (- :- - -).</p>
6	To select other menu options or to quit programming, follow the instructions in section B.3.

Device	Device Description	Day	Operation 1	Operation 2	Operation 3	Operation 4
PGM		Wednesday	ON: __: __ OFF: __: __	ON: __: __ OFF: __: __	ON: __: __ OFF: __: __	ON: __: __ OFF: __: __

5. Special Functions

Looking after People Left at Home

An important characteristic of the PowerMax10-G2 is its ability to function in a mode contrary to the usual behavior of an alarm system. When the system is in the disarmed state (or even when armed "HOME" with perimeter protection only), it can keep track of in-house activity and will report **lack of motion** in interior zones if there is no detection of motion within predetermined time limits.

To use this characteristic, you must ask your installer to program a specific time limit beyond which lack of motion will be reported as a "**not active**" alert.

To make things clear, let us assume that an elderly, sick or handicapped person is left unattended in a protected site. This person, disabled or sick as he may be, will not stay entirely still for hours. It is only natural that even while being asleep he will turn over in his bed from time to time. He might also wander into the kitchen to eat or drink, or to the bathroom for other necessities. Upon doing so, the bedroom, bathroom and kitchen motion detectors will detect his movement.

If, for example, the "lack of motion" time limit is set by your installer to 6 hours, a virtual 6-hour clock will carry out a 6-hour "countdown".

If motion is detected within the 6-hour time frame, the countdown will restart from the beginning (the virtual 6-hour clock will be "reset") and no alert message will be sent out.

If no motion is detected within the 6-hour time frame in any interior zone, the control panel will send a "**not-active**" alert message to the monitoring station or to private telephones designated by the installer.

IMPORTANT! In addition, you may provide the person confined to interiors with a single-button transmitter for distress situations, see next paragraph.

A. Control when system calls you

The PowerMax10-G2 allows you to perform commands when the system connects to your private telephone.

B. Executable Commands

Command	Keying Sequence
Disarming	[★]→[1]→[#]
Arming <u>Home</u>	[★]→[2]→[#]
Arming <u>Home-Instant</u>	[★]→[2]→[1]→[#]
Arming <u>Away</u>	[★]→[3]→[#]
Arming <u>Away-Instant</u>	[★]→[3]→[1]→[#]
Arming <u>Away-Latchkey</u>	[★]→[4]→[#]
Arming <u>Away-Instant-Latchkey</u>	[★]→[4]→[1]→[#]

Command	Keying Sequence
Quit (end communication)	[★]→[9]→[9]→[#]

Event notifications by Telephone

Control panel



The PowerMax10-G2 can be programmed by the installer for selective transmission of messages to private telephone subscribers.

The following siren signal will be sent to private telephone upon event reporting:

- * FIRE: ON - ON - ON - pause.... (- - - - -
- ** BURGLAR: ON continuously (————— ...)
- *** EMERGENCY: 2-tone siren; like an ambulance.

The called party must acknowledge the message (as explained later on), but if he does not respond, the message will be transmitted repeatedly as many times as possible within a 45-second time limit. When the 45 seconds are up, the PowerMax10-G2 will disengage the line and call the next private telephone number on its list.

The called party can acknowledge the message by pressing the "2" key on the telephone keypad. As a result, the PowerMax10-G2 will disengage the line and consider the event duly reported.

Remote Control by SMS

PowerMax10-G2 system with GSM unit can respond to SMS commands from any cellular telephone.

The various SMS commands are detailed in the following table (the detailed SMS message sending process is described in the cellular telephone user's guide). In this table, "<code>" means 4-digit user code and blank space simply means blank space.

SMS Command List

	Command	SMS Format
1	Arm AWAY	"AWAY <code>" or "AW <code>"
2	Arm AWAY instant	"AWAY INST <code>" or "AWI <code>"
3	Arm AWAY Latchkey	"LATCHKEY <code>" or "LK <code>"
4	Arm AWAY Latchkey instant	"LATCHKEY INST <code>" or "LKI <code>"
5	Arm HOME	"HOME <code>"

SPECIAL FUNCTIONS

	Command	SMS Format
		or "HM <code>"
6	Arm HOME instant	"HOME INST <code>" or "HMI <code>"
7	Disarm	"DISARM <code>" or "DA <code>"
12	Define custom house identity (see note)	"HOUSE NAME <code> <house ID>" or "HN <code> <house ID>"
13	Query system status	"STATUS <code>" or "ST <code>"

Note: House ID includes up to 16 characters, for example, JOHN'S HOUSE.

Event notifications by SMS

The PowerMax10-G2 system can send SMS messages to a maximum of 4 pre-selected telephone numbers.

Example of the reported SMS messages:

- JOHN'S HOME
AWAY
- JOHN'S HOME
DISARM
- JOHN'S HOUSE
POWERMAX10-G2: LOW BATTERY
GARAGE: LOW BATTERY
- JOHN'S HOUSE
STATUS MESSAGE 01
(Event list is displayed)

Note: Status messages can be sent only to a calling telephone whose identity number is not blocked by the user!

Note: The PowerMax10-G2 may react with a delay to received SMS messages if a GPRS session is in progress at the same time.

6. Weekly Maintenance

Periodic Test

The components of your security system are designed to be maintenance-free as much as possible. Nevertheless, it is mandatory to perform a "walk-test" at least once a week and after an alarm event to verify that all system detectors function properly. Proceed as described in this section and if there is any problem, notify your installer at once.


The periodic test is an indispensable operation by which you verify that all sirens/devices function properly, without disturbing the neighbors with loud sirens. The test must be performed **at least once a week**, and should include all sirens/devices in all zones.

Before performing the periodic test, all the sirens/devices must be in normal state. Normal state is achieved when no motion is made for at least 2 minutes.

Note: During the test period, 24-hour zones will not cause an alarm if violated, but a fire zone will function normally.


- ① Carefully read the section titled "Additional Information" according to the indicated references¹ etc – see table at end of this section.

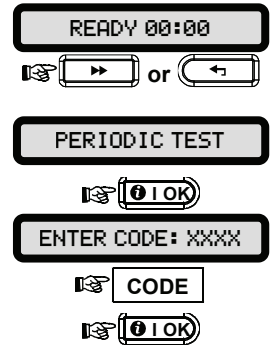
A. To Enter the Periodic Test Menu

- ① a) Make sure the system is disarmed and then press the  button repeatedly until the display reads "PERIODIC TEST".¹

- b) When the display reads "PERIODIC TEST", press .

The screen will now prompt you to enter your user code.²

- ② Enter your User Code and then press .



B. To Periodic Test a Siren

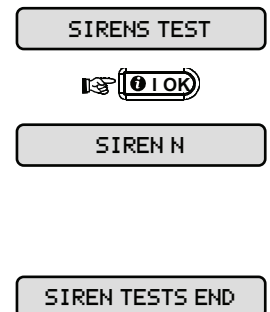
- ③ The display now reads [SIRENS TEST].⁴

- ④ Press .

The display now reads [SIREN N]. This indicates the number of enrolled sirens in the control panel that have not been tested.






The siren will sound for 3 seconds after which the PowerMax system will automatically repeat the procedure for the next siren enrolled in the system.⁵

When all the sirens have been tested, the display reads [SIREN TESTS END].



WEEKLY MAINTENANCE

C. To Periodic Test a Device

- ⑤ Press  or . The display reads [DEVICES TEST].
- ⑥ Press  or . The display now reads [NOT TESTED NNN]. NNN indicates the number of enrolled devices in the control panel that have not been tested. This number automatically drops one count for every tested device.
- ⑦ Press . The display alternates between the device number, the device type (e.g. magnetic contact, keyfob, keypad, etc.), and the device location.

DEVICES TEST

 
NOT ACTIVE NNN

Z01 NOT ACTIVE



Z01 CONTACT






FRONT DOOR

<OK> TO LEAVE

When the device list has ended, the display reads [<OK> TO LEAVE].

D. To Exit the PERIODIC TEST Menu

- ⑧ To exit "Periodic Test", press , the display reads [DEVICES TEST].
- ⑨ Press , the display reads [<OK> TO END].
- ⑩ Press  to exit.



DEVICES TEST



<OK> TO END

Additional Information (Periodic Test)

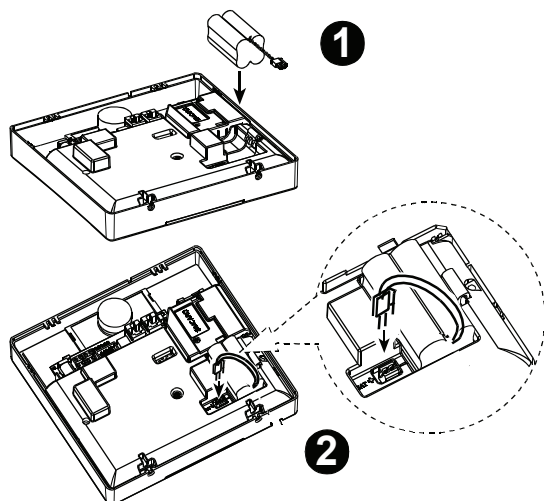
1	Display shown in disarm state when all zones are secured (00:00 or other digits show present time).
2	If you have not already changed your personal code number, use the default setting – 1111.
3	If the INSTALLER CODE is used to enter the Periodic Test, the devices LED will blink according to the link quality.
4	To skip the SIRENS TEST, press  .
5	The Periodic test can be performed on a maximum of three sirens including one internal siren.
6	<ol style="list-style-type: none"> a. Click  to scroll through the list of devices. b. The device LED blinks continuously 3 seconds after the device is displayed.

7. Maintenance

Replacing the Backup Battery

The PowerMax10-G2 uses regular electrical supply, but incorporates backup 4.8V battery pack (see sticker on battery cover). Upon receiving the following trouble message when reviewing system troubles (see Chapter 3 - Reviewing Trouble Information), contact your installer for instructions on how to proceed:

CPU LOW BATTERY



1. Battery insertion
2. Battery connection

Figure 10. Battery Replacement

Caution: Battery pack connector can be connected in one direction only.

Note: Dispose of used backup batteries according to the manufacturer's instructions.

Note: Removing the cover starts a **Tamper** alarm. The trouble indicator will light and both **Memory** and **Trouble** will flash in the display window. If you view the display at this stage by clicking the **OK** key, the "CPU TAMPER ALARM" and "CPU TAMPER OPEN" messages are displayed in addition to the "CPU LOW BATTERY" message.

When you correctly insert fresh batteries and close the lid tightly, the **TROUBLE** indicator shuts off. The **MEMORY** message continues blinking in the display (because of the **Tamper** alarm you triggered). Clear it by arming the system and disarming it as soon as the exit delay starts.

Replacing Wireless Sensors Batteries

The **wireless sensors** supplied with your system are powered by high-capacity lithium batteries that last several years, depending on the number of times the sensor is triggered into transmission.

However, if and when a battery becomes weak, the sensor itself sends a "low battery" message to the control panel, and a low battery trouble message is displayed together with the zone information (see Chapter 5 - Reviewing Trouble Information).

The **keyfob transmitters** used to control the system are powered by an alkaline battery that lasts about one year if you do not press a button more than 10 times a day. Battery exhaustion is clearly evident by flashing of the transmitter's red indicator while the button is pressed (instead of lighting steadily).

When a low battery indication appears for the first time, it may be considered as a pre-warning. It normally gives you ample time (about 30 days) to obtain a new battery and replace the old one; the detector or keyfob unit will be fully operational throughout this period. However, to be on the safe side, it is advisable not to wait that long.

Use the battery specified in the detector's own installation instructions. If you do not have the instructions, seek the advice of your installer or ask him to replace the battery in the specific sensor that sent the low battery message.

The **Wireless Commander** is powered by a long life 3 V Lithium battery. If the battery is weak when reading the PowerMax10-G2 event log the display will read, for example, "C01 Low Battery" (meaning there is a low battery condition in the wireless commander #01), and the message "remote commander" will be heard.

For replacing the wireless commander battery, refer to the MCM-140+ Wireless Commander user guide.

After battery replacement, the detector unit will send a "battery restored" signal to the control panel, and the "low battery" message will be cleared.

Gaining access to 24-hour zones

If you wish to access a sensor defined as a 24-hour zone without causing an alarm:

- Click **▶▶** - the display will read: **NORMAL MODE / WALK TEST**.
- Click **▶▶** again - the display will read: **USER SETTINGS**.
- Click **OK** - the display will read: **ENTER CODE ____**.

MAINTENANCE

Key your secret 4-digit <User Code> - the buzzer will play the "happy Tune" (- - - —).

You have 4 minutes during which the 24-hour sensor can be opened and accessed. When the 4 minutes are up, the system will automatically revert to the normal mode.

Cleaning the Control Panel

The control panel may occasionally get stained if touched with greasy fingers, and may accumulate dust after a long period of use. Clean it only with a soft cloth or sponge moistened lightly with a mixture of water and mild detergent, and then wipe it dry.


The use of abrasives of any kind is strictly forbidden. Also never use solvents such as kerosene, acetone or thinner. These will certainly ruin the external finish and damage the transparency of the top window.


Event Log

All events are memorized in an event log that contains up to 100 entries. You can access this log, review the events one by one and draw functional conclusions.

If the event log fills up completely it continues to accept new events at the expense of old events - the oldest event is deleted upon registration of each new event.

The date and time of occurrence are memorized for each event. When reading the event log, events are shown in chronological order - from the newest to the oldest.


Because of the limited display space, the event description is shown first, then the date and time. The two displays are shown alternately several times, until you click  to move on to an older event, or until the "no action" 4-minute timeout restores the system to the normal operating mode.

Access to the event log is provided by clicking the  button and then keying your master user code.

Should you wish to get an overall view of using the log, refer to the procedure below.

Reading the Event Log


To read the event log, proceed as follows:

1. While the system is in the normal operating mode, click the  key.


The PowerMax10-G2 display will change to [ENTER CODE: _].


2. When the PowerMax10-G2 display reads [ENTER CODE: _], enter the current master user code.

The "Happy Tuns" will sound and the PowerMax10-G2 display will read [LIST OF EVENTS]. (see **Important Note!**)

3. Click the  button. The latest event will be shown.

The event is displayed in two parts, for example, "Z13 alarm" then "09/02/10 3:37 P".

The two displays will be shown alternately until clicking  again to move to the next event or until the event log times out (4 minutes).




4. Click the  button as many times as necessary to read all the required data.

Important Note! Entering an incorrect code 5 times in a row will initiate a 30-second penalty lockout of the keypad.

Attention: The system will not allow you to erase the event log. Only the installer is authorized to view and perform this function.



Exiting the Event Log

1. Click the  or  button from anywhere within the event log.
The PowerMax10-G2 display will read [OK> TO EXIT].
2. Click the  button.

The system reverts to the normal operating mode.



[OK> TO EXIT]



READY 00:00

APPENDIX A. GLOSSARY

This list of terms is arranged in alphabetical order. Any term indicated by cursive (*italic*) letters within the explanatory text can be looked up separately.

Abort Period: When an alarm is initiated, the internal sounder is activated first for a limited period of time which is the abort period set by the installer. If you cause an alarm accidentally, you can disarm the system within the abort period before the real sirens start and before the alarm is reported to the *remote responders*.

Alarm: There are 2 kinds of alarm:

Loud alarm - both internal and external sirens blare out constantly and the control panel reports the event by telephone.

Silent alarm - the sirens remain silent, but the control panel reports the event by telephone.

A state of alarm is caused by:

- Motion detected by a *motion detector*
- Change of state detected by a *magnetic contact detector* - a closed window or door is opened
- Detection of smoke by a *smoke detector*
- *Tampering* with any one of the detectors
- Pressing the two emergency buttons simultaneously (panic)

Arming: Arming the alarm system is an action that prepares it to sound an alarm if a zone is "violated" by motion or by opening a door or window, as the case may be. The control panel may be armed in various modes (see *AWAY*, *HOME*, *INSTANT* and *LATCHKEY*).

Assigned: Refers to zones.

Associated: Refers to devices.

AWAY: This type of arming is used when the protected site is vacated entirely. All zones, *interior* and *perimeter* alike, are protected.

Chime Zones: Allow you to keep track of activity in the protected area while the alarm system is in the disarmed state. Whenever a chime zone is "opened", the buzzer beeps twice. The buzzer doesn't beep, however, upon closing the zone (return to normal). Residences can use this feature to annunciate visitors or look after children. Businesses can use it to signal when customers enter the premises or when personnel enter restricted areas.

Note: *Your installer will never designate a 24-hour zone or a fire zone as a chime zone, because both zone types actuate an alarm if disturbed while the system is in the disarmed state.*

Although one zone or more are designated as chime zones, you can still enable or disable the chime function.

Control Panel: The control panel is a cabinet that incorporates the electronic circuitry and microprocessor that control the alarm system. It collects information from various sensors, processes it and responds in various ways. It also includes the user-interface - control keys, numerical keypad, display, sounder and loudspeaker.

Default Settings: Settings that are applicable to a specific device group.

Detector: The device (apparatus) that sends an alarm, that communicates with the control panel (e.g. Tower 20 AM is a motion detector, MCT-425 is a smoke detector)

Disarming: The opposite of arming - an action that restores the control panel to the normal standby state. In this state, only *fire* and *24-hour zones* will sound an alarm if violated, but a "*panic alarm*" may also be initiated.

Disturbed Zone: A zone in a state of alarm (this may be caused by an open window or door or by motion in the field of view of a motion detector). A disturbed zone is considered "not secured".

Forced Arming: When any one of the system zones is *disturbed* (open), the alarm system cannot be armed. One way to solve this problem is to find and eliminate the cause for zone disturbance (closing doors and windows). Another way to deal with this is to impose **forced arming** - automatic de-activation of zones that are still *disturbed* upon termination of the exit delay. Bypassed zones will not be protected throughout the arming period. Even if restored to normal (closed), bypassed zones will remain unprotected until the system is disarmed.

Permission to "force arm" is given or denied by the installer while programming the system.

HOME: This type of arming is used when people are present within the protected site. A classic example is night-time at home, when the family is about to retire to bed. With HOME arming, perimeter zones are protected but interior zones are not. Consequently, motion within interior zones will be ignored by the control panel, but disturbance of a perimeter zone will cause an alarm.

Instant: You can arm the system AWAY-INSTANT or HOME-INSTANT, thereby canceling the entry delay for all delay zones for the duration of one arming period.

For example, you may arm the control panel in the HOME-INSTANT mode and remain within the protected area. Only perimeter protection is active, and if you do not expect somebody to drop in while the system is armed, alarm upon entry via the main door is an advantage.

To disarm the system without causing an alarm, use your control keypad (which is normally accessible without disturbing a perimeter zone) or use a keyfob transmitter.

Latchkey: The Latchkey mode is a special arming mode in which designated "latchkey users" will trigger a "latchkey message" to be sent to a telephone or a pager when they disarm the system.

For example, if a parent wants to be sure that their child has returned from school and disarmed the system. Latchkey arming is only possible when the system is armed in the AWAY mode.

Magnetic Contact Detector, Wireless: A Magnet-controlled switch and a wireless PowerCode transmitter in a shared housing. The detector is mounted on doors and windows to detect changes in state (from closed to open and vice versa). Upon sensing that a door or window is open, the detector transmits its unique identification code accompanied by an "alarm" signal and various other status signals to the control panel. The control panel, if not armed at that time, will consider the alarm system as "not ready for arming" until it receives a "restored" signal from the same detector.

Motion Detector, Wireless: A passive Infrared motion sensor and a wireless PowerCode transmitter in a shared housing. Upon sensing motion, the detector transmits its unique identification code, accompanied by an alarm signal and various other status signals to the control panel. After transmission, it stands by to sense further motion.

Non-Alarm Zone: Your installer can designate a zone for roles other than alarm. For instance, a motion detector installed in a dark stairway may be used to switch on lights automatically when someone crosses the dark area. Another example is a miniature wireless transmitter linked to a zone that controls a gate opening mechanism.

Quick Arming: Arming without a user code. The control panel does not request your user code when you press one of the arming buttons. Permission to use this arming method is given or denied by the installer while programming the system.

Remote Responder: A responder can be either a professional service provider to which the home or business owner subscribes (*a monitoring station*) or a family relation/friend who agrees to look after the protected site during absence of its occupants. The *control panel* reports events by telephone to both kinds of responders.

Restore: When a detector reverts from the state of alarm to the normal standby state, it is said to have been "restored".

A *motion detector* restores automatically after detection of movement, and becomes ready to detect again. This kind of "restore" is not reported to the remote responders.

A *magnetic contact detector* restores only upon closure of the protected door or window. This kind of "restore" is reported to the remote responders.

Sensor: The sensing element: pyroelectric sensor, photo-diode, microphone, smoke optical sensor etc.

Smoke Detector, Wireless: A regular smoke detector and a wireless PowerCode transmitter in a shared housing. Upon detection of smoke, the detector transmits its unique identification code accompanied by an alarm signal and various status signals to the *control panel*. Since the smoke detector is linked to a special *fire zone*, a fire alarm is initiated.

State: AWAY, HOME, AWAY-INSTANT, HOME-INSTANT, LATCHKEY, FORCED, BYPASS.

Status: AC fail, low battery, trouble, etc

User Codes: The PowerMax10-G2 is designed to obey your commands, provided that they are preceded by a valid security access code. Unauthorized people do not know this code, so any attempt on their part to *disarm* or defeat the system is bound to fail. Some operations, however, can be carried out without a user code as they do not degrade the security level of the alarm system.

Zone: A zone is an area within the protected site under supervision of a specific detector. During programming, the installer allows the *control panel* to learn the detector's identity code and links it to the desired zone. Since the zone is distinguished by number and name, the control panel can report the zone status to the user and register in its memory all the events reported by the zone detector. Instant and delay zones are "on watch" only when the control panel is armed, and other (24-hour) zones are "on watch" regardless of whether the system is armed or not.

APPENDIX B. HOME FIRE ESCAPE PLANNING

Fire can spread rapidly through your home, leaving you a short time to escape safely. Your ability to get out depends on advance warning from smoke detectors and advance planning - a home fire escape plan that everyone in your family is familiar with and has practiced.

- Pull together everyone in your household and make an evacuation plan.
- Draw a floor plan of your home, showing two ways out of each room, including windows. Don't forget to mark the location of every smoke detector.

Test all smoke detectors (by a qualified testing laboratory) periodically, to ensure to ensure their serviceability. Replace batteries as required.

- Make sure that everyone understands the escape plan and recognizes the sound of smoke alarm. Verify that the escape routes are clear and that doors and windows can be opened easily.
- If windows or doors in your home have security bars, make sure that the bars have quick-release mechanisms on the inside, so that they can be opened immediately in an emergency case. Quick release mechanisms won't compromise your security, but they will increase your chances of safely escaping a home fire.
- Practice the escape plan at least twice a year, making sure that everybody is involved - from kids to grandparents. Allow children to master fire escape planning and practice before holding a fire drill at night when they are sleeping. The objective is to practice, not to frighten, so telling children there will be a drill before they go to bed can be as effective as a surprise drill. If children or others do not readily waken to the sound of the smoke alarm, or if there are infants or family members with mobility limitations, make sure that someone is assigned to assist them in fire drill and in the event of an emergency.

- Agree on an outside meeting place where everyone can meet after they've escaped. Remember to get out first, and then call for help. Never go back inside until the fire department gives the OK.
- Have everyone memorize the emergency phone number of the fire department. That way any member of the household can call from a cellular phone or a neighbor's home.
- Be fully prepared for a real fire: when a smoke alarm sounds, get out immediately and once you are out, stay out - leave the firefighting to the professional!
- If you live in an apartment building, make sure that you are familiar with the building evacuation plan. In case of a fire, use the stairs, never the elevator.

Tell guests or visitors to your home about your family's fire escape plan. When visiting other people's home, ask about their escape plan. If they don't have a plan in place, offer to help them make one. This is especially important when children are permitted to attend "sleepovers" at friends' homes.

FCC STATEMENT

The 315 MHz model of this sensor complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This sensor may not cause harmful interference, and (2) this sensor must accept any interference that may be received, including interference that may cause undesired operation.

The digital circuit of this sensor has been tested and found to comply with the limits for a Class B digital sensor, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in residential installations. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio and television reception. However, there is no guarantee that interference will not occur in a particular installation. If this sensor does cause such interference, which can be verified by turning the sensor off and on, the user is encouraged to eliminate the interference by one or more of the following measures:

- Re-orient or re-locate the receiving antenna.
- Increase the distance between the sensor and the receiver.
- Connect the sensor to an outlet on a circuit different from the one which supplies power to the receiver.
- Consult the dealer or an experienced radio/TV technician.

At 315 MHz the product complies with FCC requirements.

NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO or TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

WARNING! Owner's instruction notice: "Not to be removed by anyone except occupant".

If the "PowerMax10-G2" causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. If advance notice is not practical, you will be notified as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if it is necessary.

The telephone company may make changes in its facilities, equipment, operations or procedures that could affect the operation of the equipment. If this happens the telephone company will provide advance notice in order for you to make necessary modifications to maintain uninterrupted service.

If trouble is experienced with the "PowerMax10-G2" for repair or warranty information please contact Visonic Inc USA., 65 West Dudley Town Road, Bloomfield, CT 06002, phone number: 8 602 430 833, URL: www.visonic.com. If the equipment is causing harm to the telephone network, the telephone company may request to disconnect the equipment until the problem is resolved

**W.E.E.E. Product Recycling Declaration**

For information regarding the recycling of this product you must contact the company from which you originally purchased it. If you are discarding this product and not returning it for repair then you must ensure that it is returned as identified by your supplier. This product is not to be thrown away with everyday waste.

Directive 2002/96/EC Waste Electrical and Electronic Equipment.

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POWERMAX10-G2 USER GUIDE D-302757 Rev 0 (8/10)

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